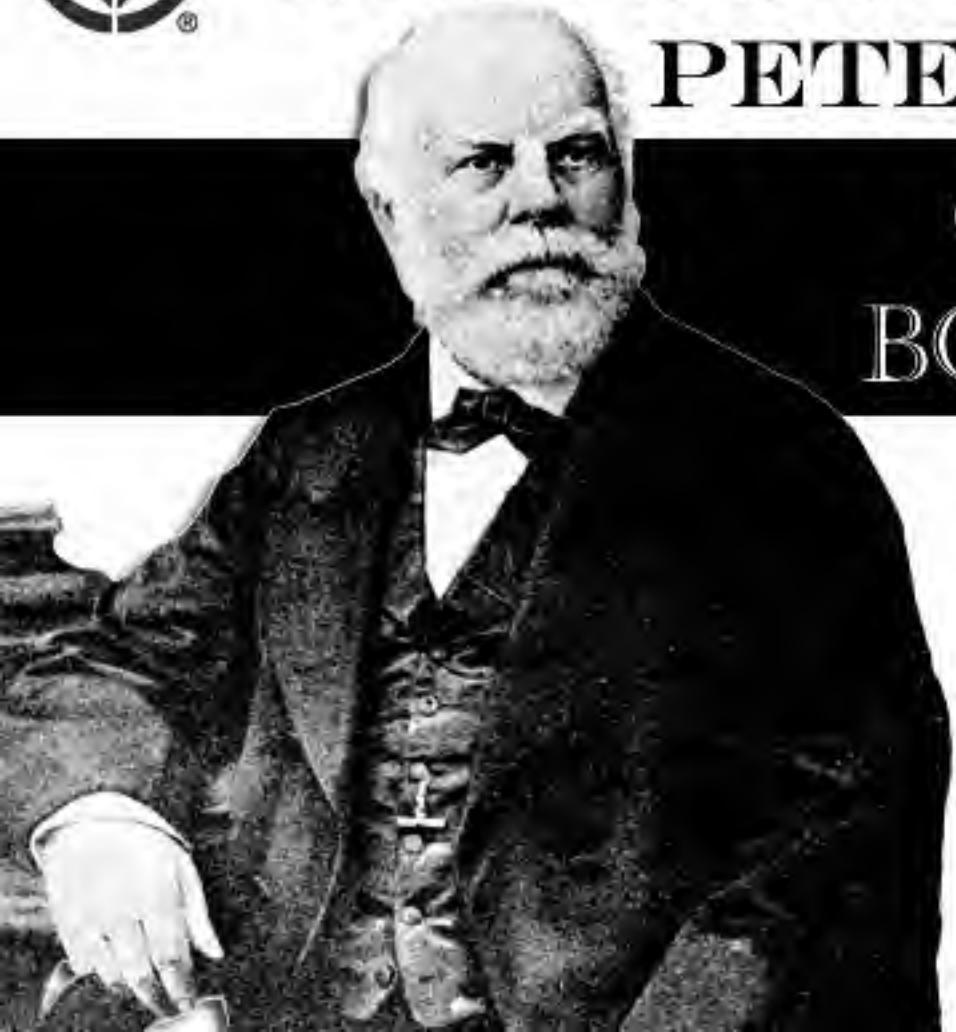




# MISSOURI BOTANICAL GARDEN

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## GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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35

Caud. p. 487

C. umbellata H.B.K.oo. C. umbellata Torrey! Rocky Mt. of James  
H.C. Torreyp.p. C. umbellata H.B.K! Mexico Humboldt  
H.C. Kunth

nn. Cult St Louis from New Mexican Seed

39 Pianky, Brazil, Gardner 2425 H.H. H. Deak.

60 Camargo, Gregg 880

Taftville, Gregg. 490

60.6. C. umbellata H.B.K = H.G. Beck.

81. No 371 &amp; 695 Wright.

82 Wright 510, Limpia

207. Broomfield, Jamaica H.H. H. Deak.  
Pandie

26 29 35

(Enclosed 308-317)

0 1 2 3 4 5 6 7 8 9 10  
cm

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C. umbellata Hook. ! Querétaro Mexico. Hib.

C. paniculata Willd. # 3163 ? - - - -

C. umbellata H. T. Tony, James E. W., Rocky Mts.

Gregg. 490. Agoston near Saltillo

.. 880 Camargo

Wright 1627.

1636

1639

695 San Bernardo, Sonora

371. N Mexico

510 Limpio

Fowler. 659. Santa Fe in neglect  
kitchen gardens & waste fields on  
steep banks etc

Ind. Ord: Broomfield, Tamaqua, - H. Beck.

~~252 Wollschlaegel, Antigua~~ - H. Mart.

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exsecta  
var. Desertorum Antigua Wollschlaegel  
N 352 - H. Mart.

C. Desertorum Mart var! Pianky, Pinal  
Mart.

Pianky, Bonsil, Gardiner 2425  
- H. Hook  
& Danke



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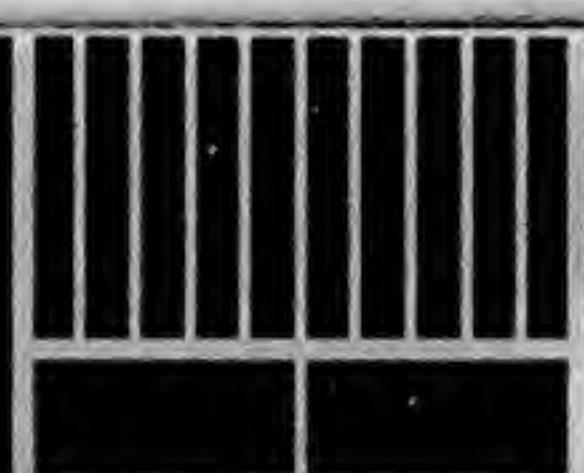
C. umbellata H. B. K. ! Querétaro, Mexico Hach. in Benth.  
 (C. paniflora Willd) herb N<sup>o</sup> 3163. " " "

James Exped. Rocky Mts. Herb Torrey  
 Aguafron near Saltillo Gregg N 490  
 Camargo " N 880  
 New Mexico & Sonora, Wright 371, 510

695, 1627, 1636, 1639. Schott, Benth.  
 Santa Fe Tenders N 659. in waste  
 ground Schott, Benth. Hays or fields  
 Ind. occid. Jamaica Broomfield: McBurk,  
 Jamaica Park " " "

var. exserta

Antigua, Wollschlaeger N 382 H. Mart.  
 Piauhy, Brasil, Martin H. Mart  
 (C. desertorum Mt. Mss!) Piauhy, Brasil, Gardner 2625  
 H. Mart & Benth.



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0064

*C. umbellata*

2/8/59

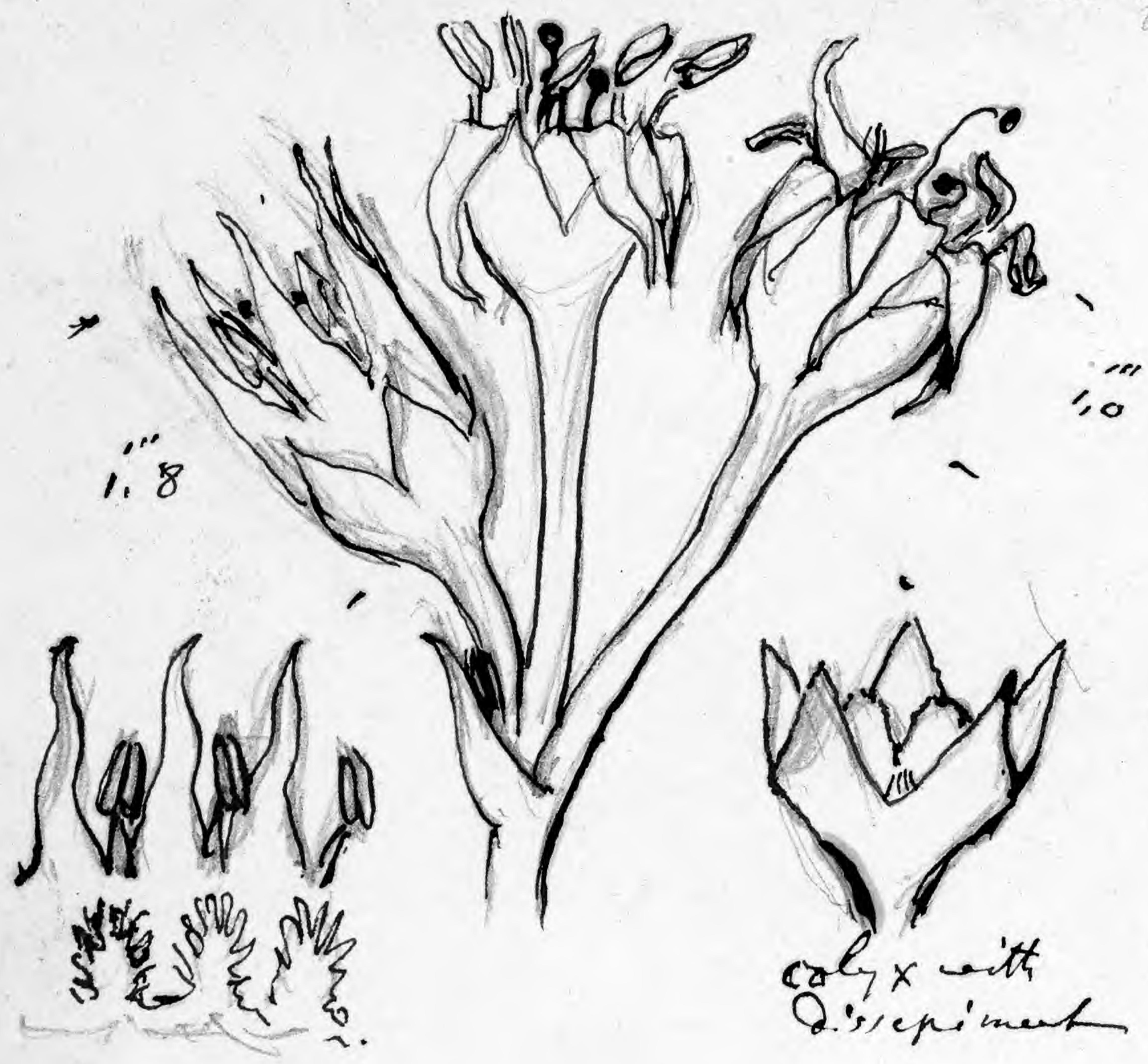
Looks very much like *C. salina* on Sueda  
Why not *C. salina* from same region see other  
side

San Pedro A. M. (Sonora) Arizona  
South Pac. wagon road. Elevation  
Dr. S. Hays

on Sueda

12/58

4 seeds  
developed



colyx with  
discipulum



seeds in coly, about  
oblong. vix robust.  
lvs. lvs. broad  
big.

*C. umbellata*. lob. sal. non inbident. trigon. tab. fore separated  
lvs. reflex. lvs. lanceol. Tab. long. dist. anthers. lvs. oblong  
filament. robust. aequal. ~~spur~~ pubescent. oval. style over  
long. anthers. obliqu. caps. involute, conduplicate, 4 angles



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Sept 1875

Similar to *C. Salina*

4668

but flowers longer pedicellate,

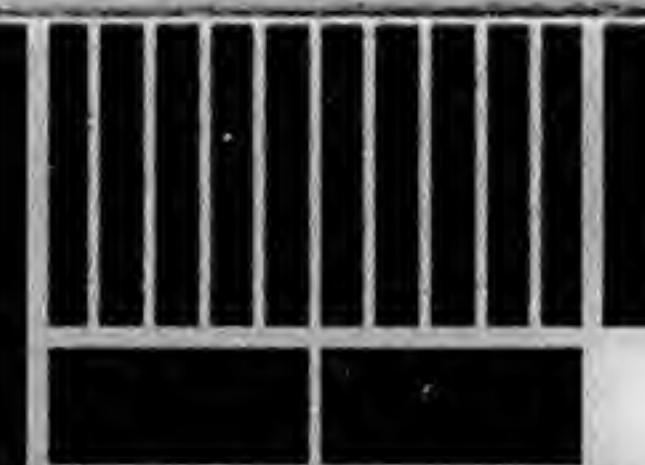
lobes of Corolla much more slender, longer the tube,  
filaments almost as long as stamens,  
ovary broadly oval, strongly fringed.

Ovary depressed

Capsule depressed, ovule 10 side



spotted leaf whorl leaves 4.5 in oppposite 5 64



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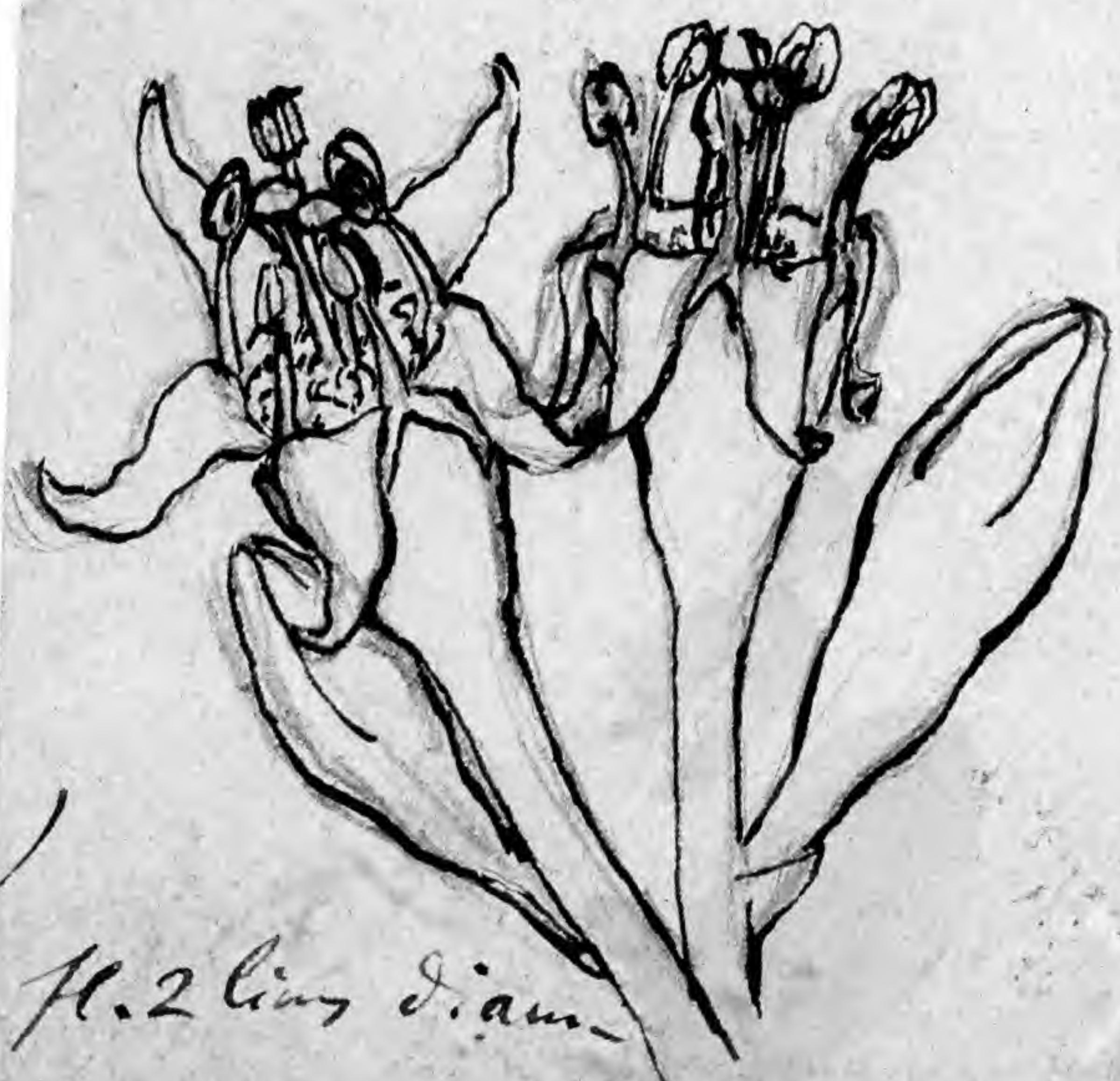
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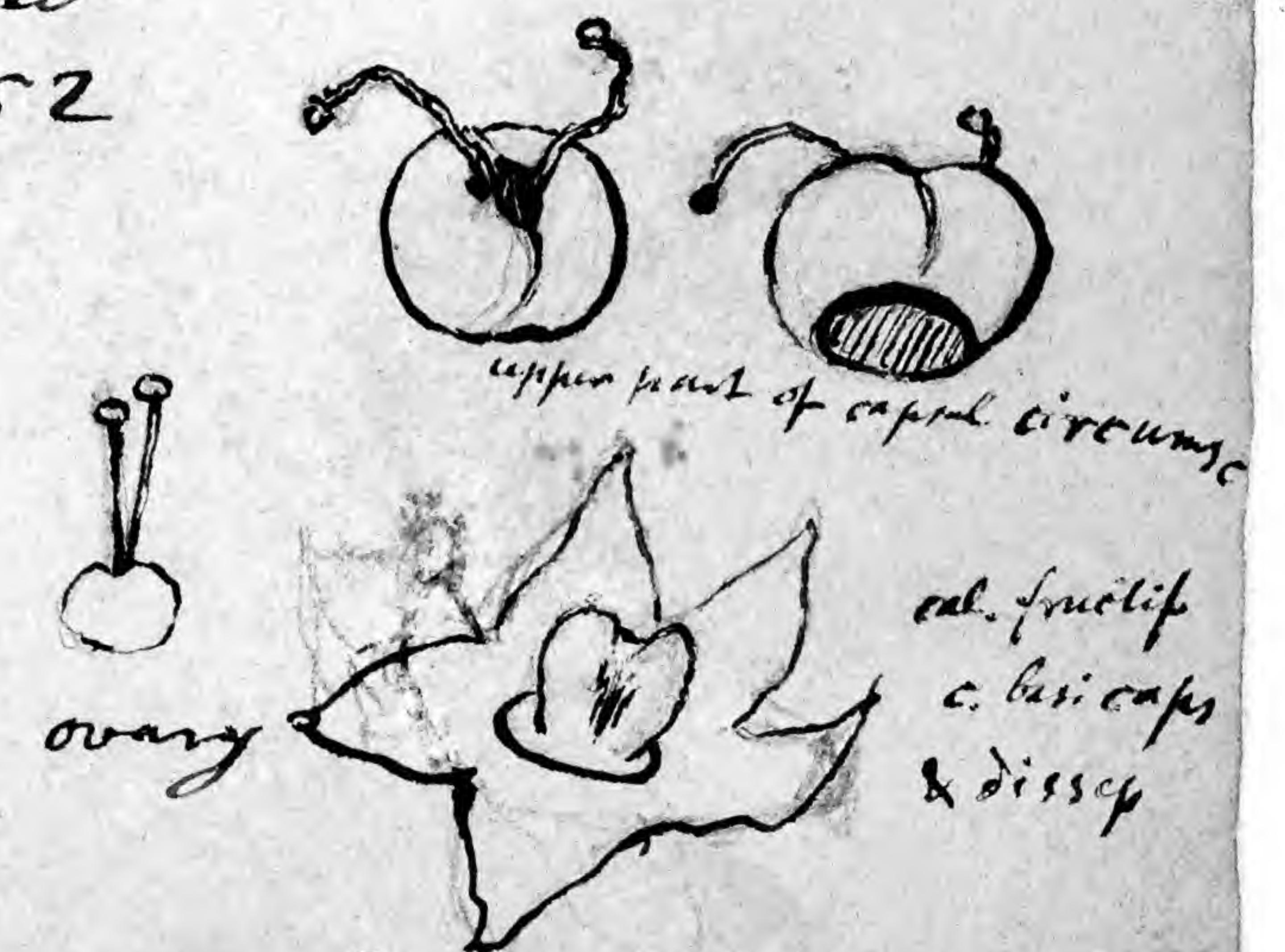
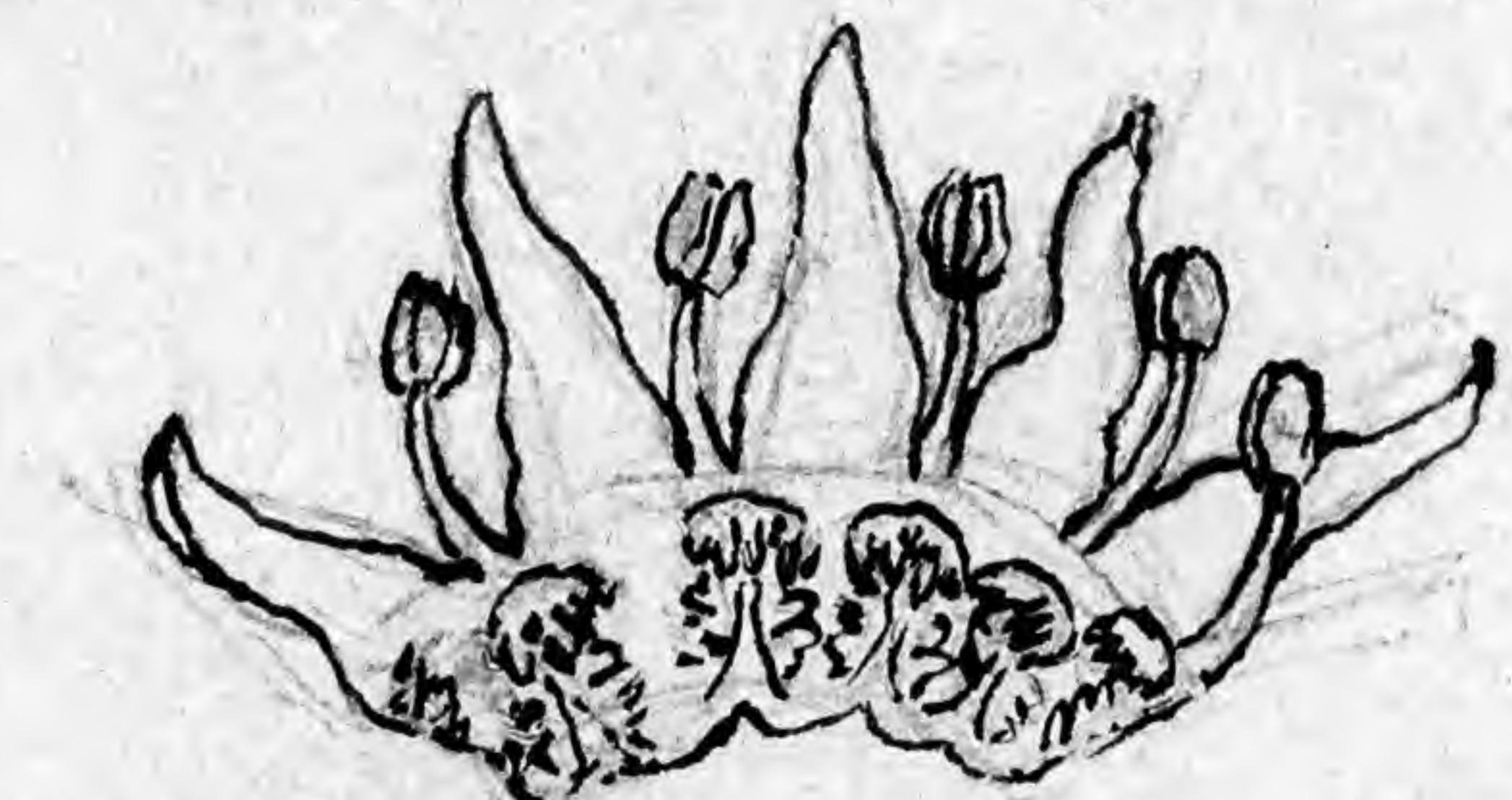
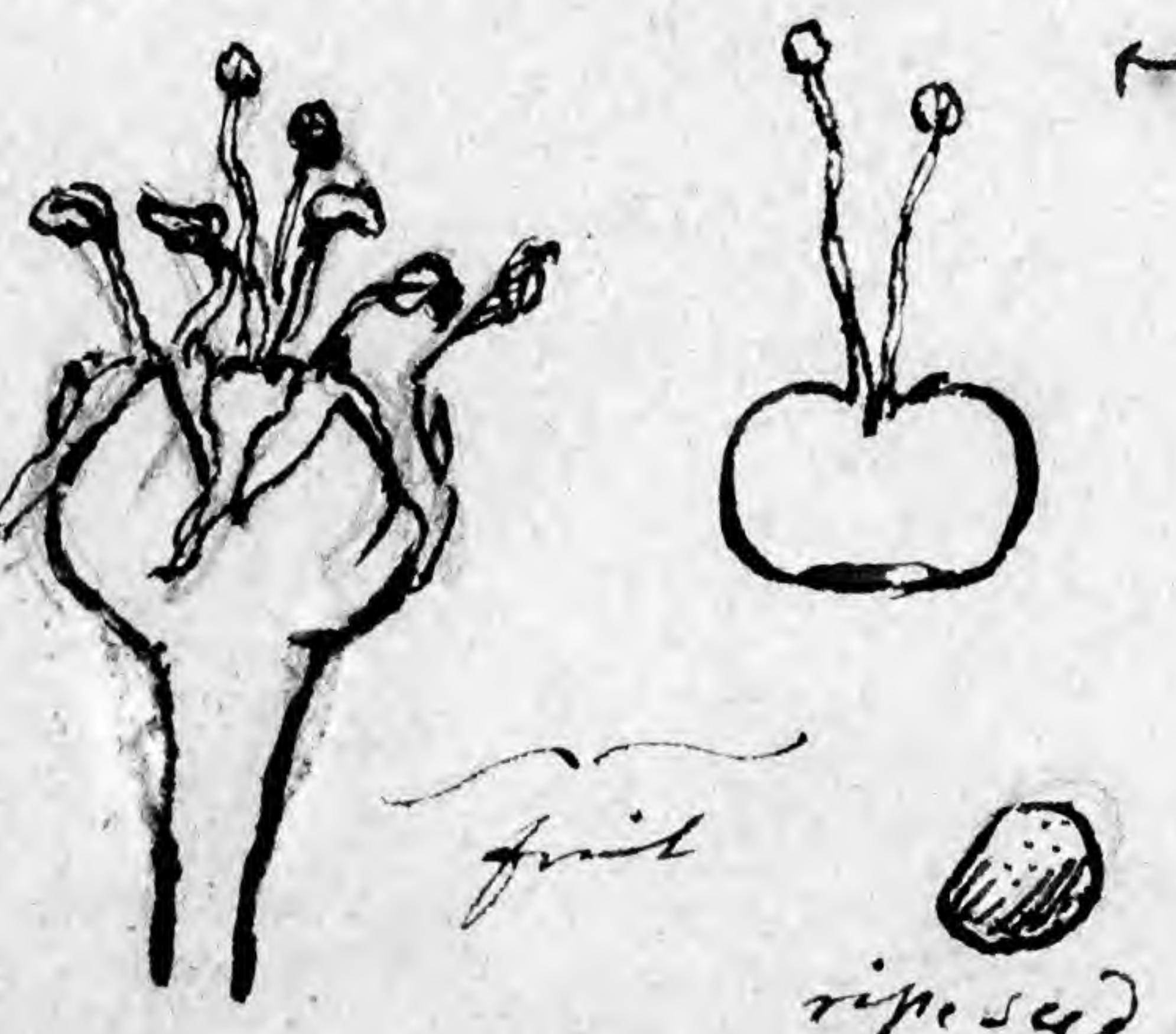


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nn



*Curruca umbellata* HBK from New Mexico seed  
cult. St Louis Sept 1852



raised from seeds cult by Dr Bigelow Nov 3<sup>rd</sup> 1851 at  
Mule springs N. Mex. on  
cultivated on portulaca foliage & *Oliveria*



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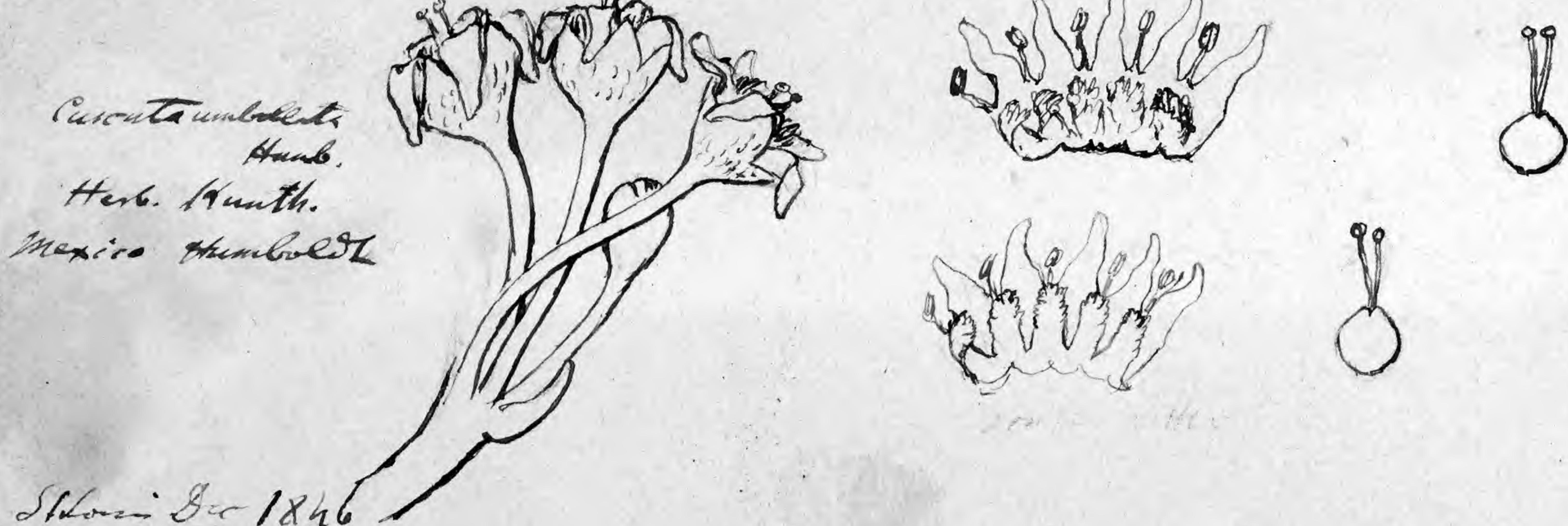
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60. 6

*Cuscuta umbellata* Kth. H. G. Benth., Humboldt leg.

is a very low plant, capsule one-sided, entirely identical with the new one I find; seed in the only capsule examined a single, subglobose capsule, 0.6 " vomerinus

pp.



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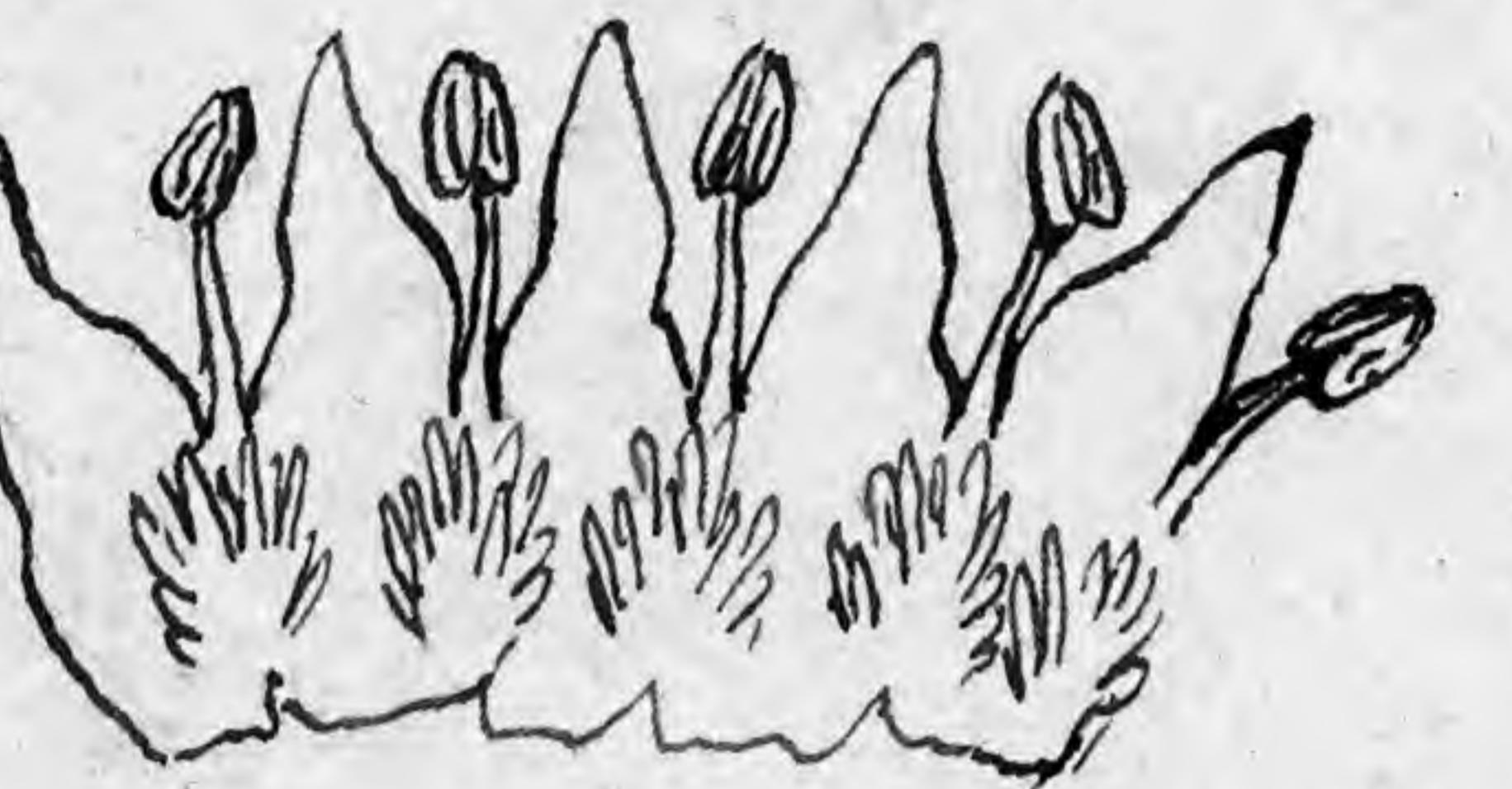
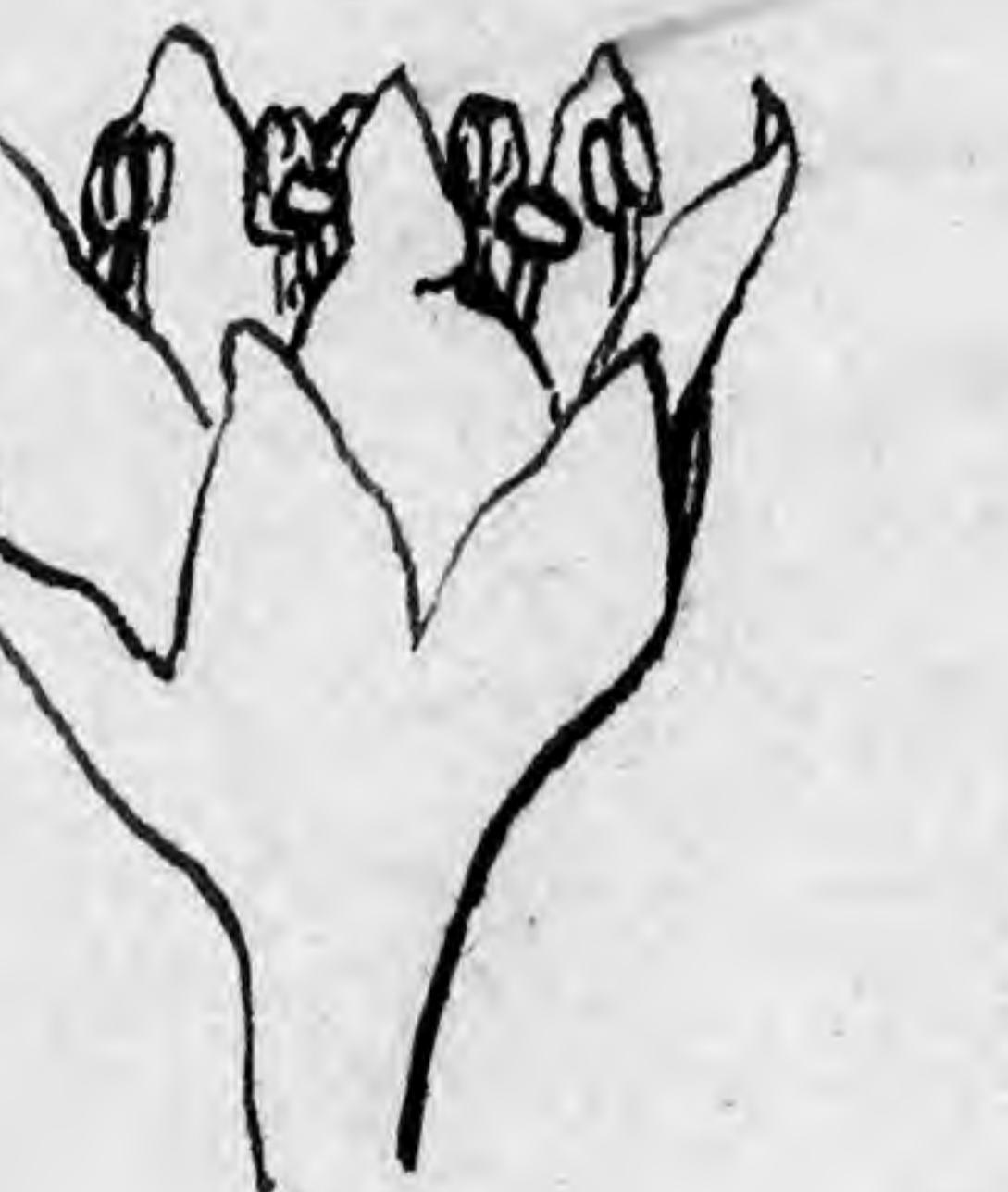
*Cuscuta umbellata* Hook

on *Portulaca oleracea*

Eastern base of  
Rocky Mts. Dr. James

W. H. Philip

St Louis 1864



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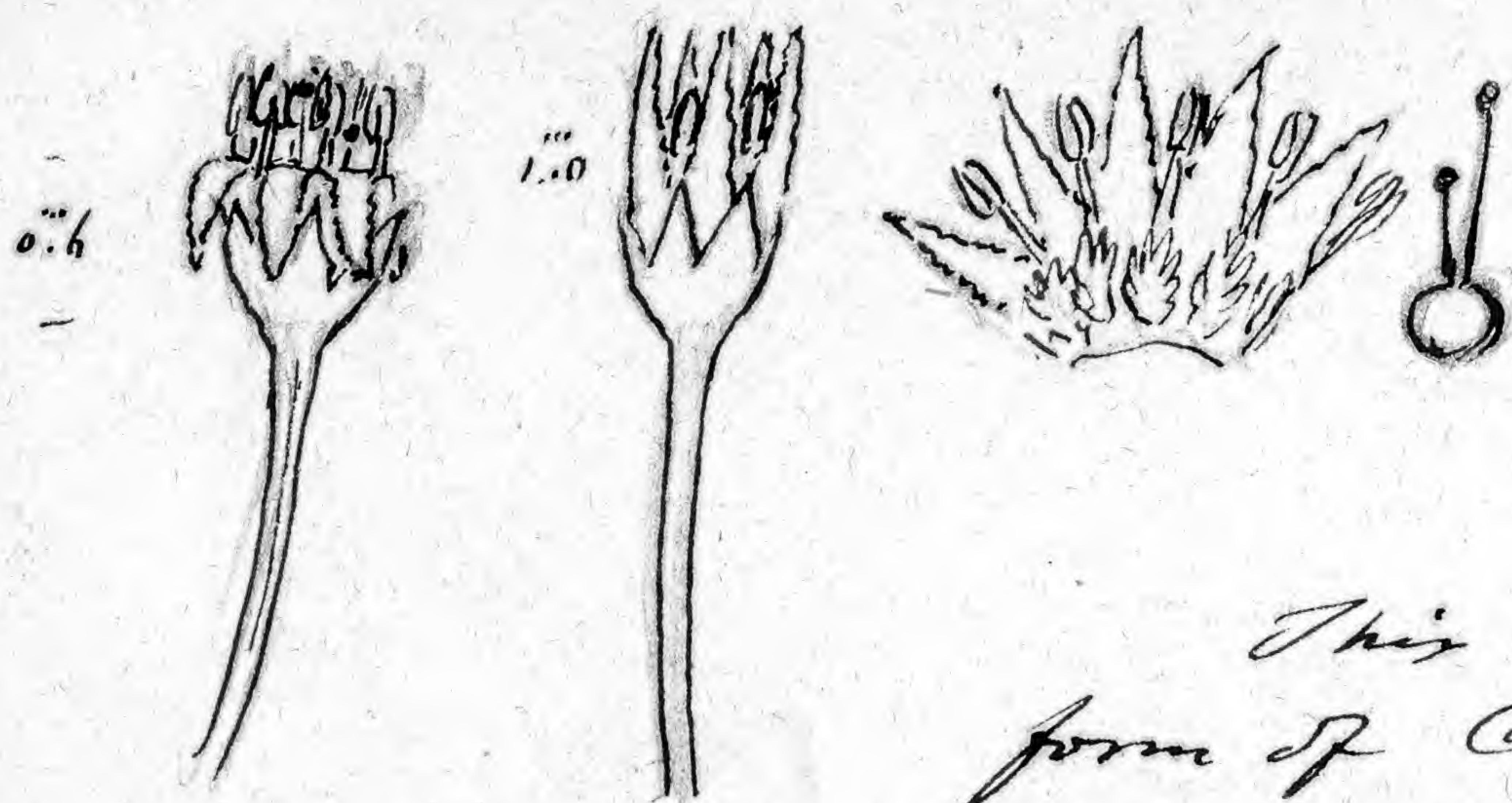
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319



Hew Aug 1857

*C. umbellata* varDr Coulter N<sup>o</sup> 1010

Sonora alt., Mexico

Herb Hook.

This is a singular small form of *Cassute umbellata*, or perhaps of *C. gracilis*. scales papillose - rounded - styles very unequal -

*C. umbellata*, *C. California*, *C. leptantha* and *C. gracilis* are very nearly allied. *California* however is distinguished by the want of scales.

*Gracilis* and *umbellata* stand too near! The densely fasciculated pedicels



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and small flowers seen to be the principal  
difference

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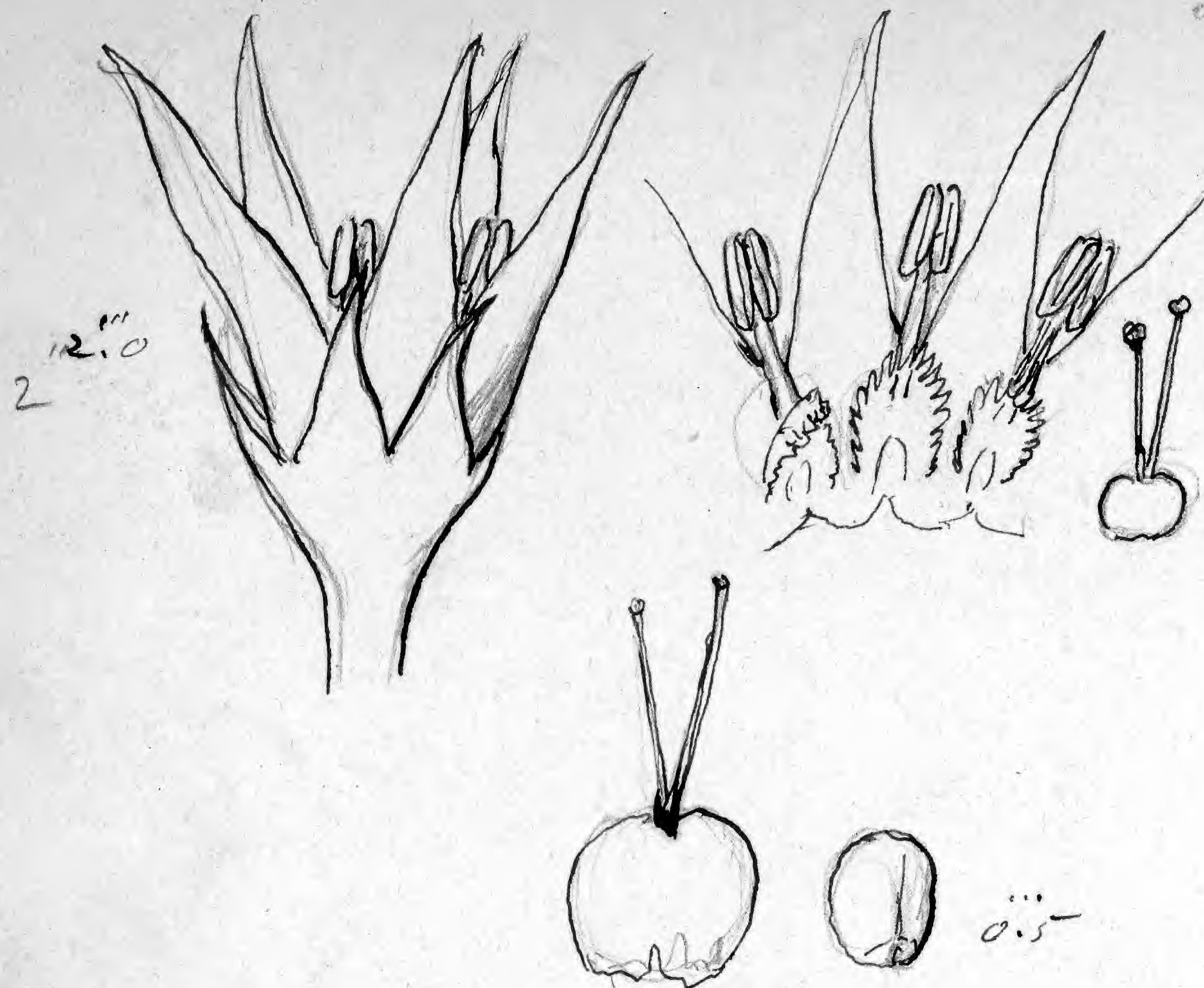


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ar Dr 65 8.25

*Corynandra umbellata* Kunth

Camargo on Achyranthes Kellst.  
etc - June 1<sup>st</sup> 1847  
Gregg 880



Gregg's No 490. Bear Saltville  
also on Kellstreeves - some  
Amaranthaceae is the same thing  
but apparently not ours with

calyx deeply divided lobes  
longer than the tube of corolla;  
filaments longer than the oblong  
linear anthers; stems  
short the lobes of corolla;  
style longer than ovary, filiform  
lobes of corolla patent  
at last reflexed; corolla  
overing the capsule. The which  
remains ~~purple~~ sessile and is rarely  
drooping over side of top of  
style



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5-0.6"

R. Wrightianae

Cavendish Collection

N. 371.

Flowers long pedunculate, long ~~umbellatij~~  
 pedicelis lobis anterius oblique tuba campanulata  
 paullo superantea; lobis campanulata petalis  
 reflexive tuba aquatilis; squam; magis;  
 style filiformis exsertis, caps. exserta,  
 sem. vermiculosi 0.5-2.6 in longis

N. 695

is entirely identical

No number

is a form with shorter pedicels, scarcely as long as the flowers.



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4

Cise p. 487

*C. partita* Chois

18. *C. partita* Chois! Blanckel 3057 Brasil  
H. Shattuck.

38 Pianky, Brasil, Gardner H.G. H.

50. Pianky, Brasil, Gardner 2684 bis H. W. Job.  
H. desert, Gardner 2684.

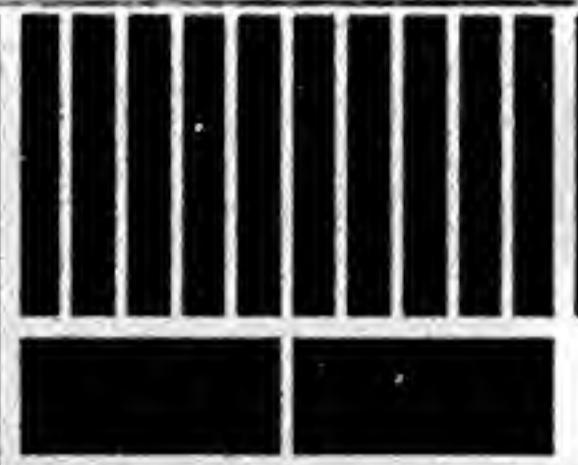
Curaçao Friedrichsthal 375. 6. H. W. Job.

195. Maracaibo Karsten

231 Waddell 3483 Bolivia

" " 3611 Gutierrez, Bolivia

(Enclosed 289-303)



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195

*Cassia partita* Chois

Perija near Maracaibo

on some annual Crotons

Dr. Karsten

Moraceae. St. aging, only capillaries  
hairy; flowers in synas panic-  
ulatas laxas congestis pedicellatis  
aliquis lobis cuneolatis dentatis ad  
basim pendulis, tubo cor. brusiti  
Cassia tub. max. cuneolata subaequaliter  
reflexa, apice inflata; staminis  
peraequaliter longis; squamis magnis  
fasciis aequaliter, stylis expellentibus  
ovarii pavo globosae multo longioribus



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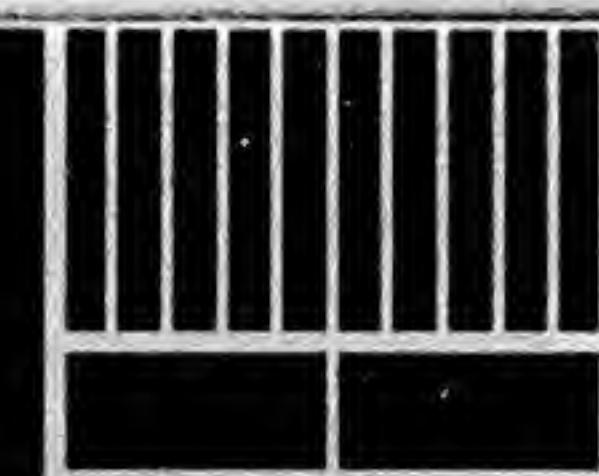
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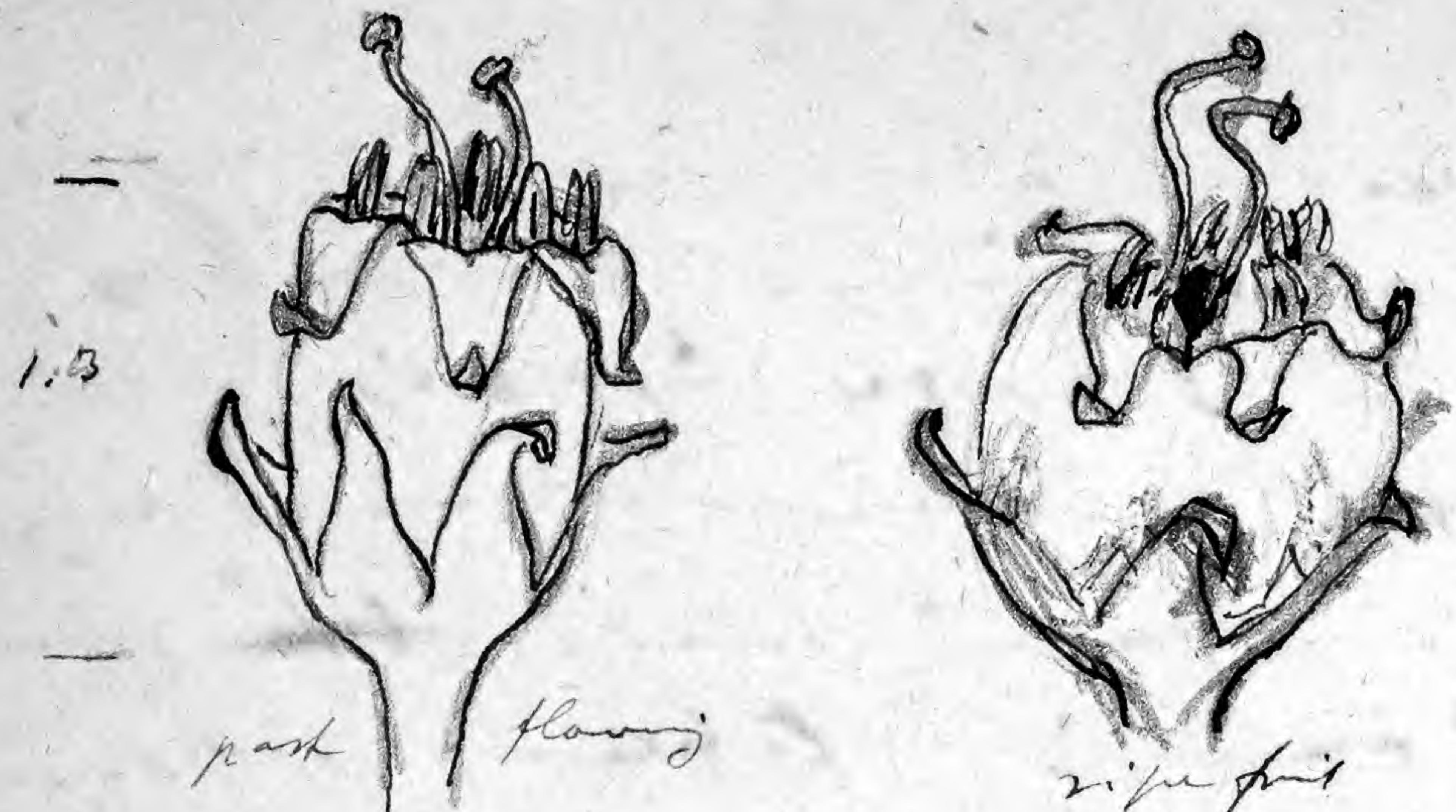
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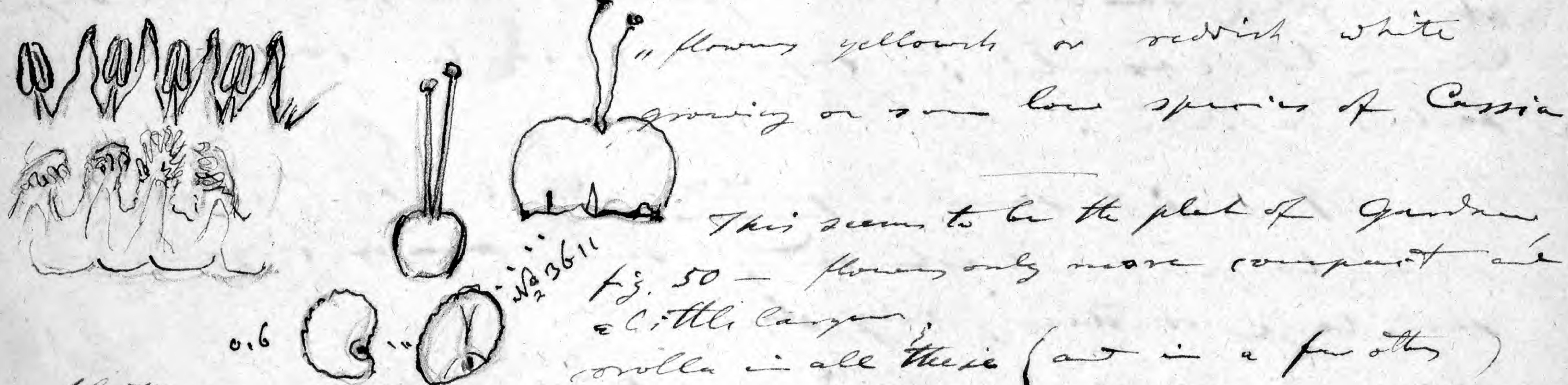
Paris June 1857



Grammion pastita  
B. major.

3483. Coll H. A. Weddell

Campos húmedos, Prov. Chiquitos  
Bolivia Sept & Oct 1845.



This seems to be the plant of Gardner  
fig. 50 - flowers only more compact and  
a little larger.  
ovilla in all these (at least in a few others)  
plants soon after flowering ventriloze; ~~the~~ line below the plants (the flower  
itself!) is thickened and remains tighter, while the paronyx  
of the ovular tube becomes larger, wider, and thereby the whole  
ventriloze, but somewhat divided in 5 compartments, which correspond  
with the petals, externally it ~~then~~ looks obtusely 5 angular, and 5 grooved



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cm

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calyx profunde ferre ab basi fusi lobis lanceolatis basi,  
 apice scapo ramosis, tubo corolla cylindro brevioribus;  
 corolla corolle <sup>lanceolata</sup> tubo brevioris ramosis apice iflexis;  
 staminibus levioribus levioribus, anthers magis oblongi  
 plantae subulata longioribus; squam mediis ~~tubis~~ corollis  
 plantae & fructu ramosi ramosi tubis subsagittatis  
 stylis fili gracibus; ovaria paucis globos - longis sagittatis  
 ovulis longe exsertis; capsula carinata corolla manu  
 test indec. ats.

This is the same as partita - all essential parts, only  
 much larger, and not red; same form of calyx & corolla  
 same large anthers, long styles etc.

3611 Gettysburg, ~~PA~~, Weddell is the same plant, corolla more  
 deeply divided and standard shorter; in the Province of  
 Cordillera in Bolivia - fl. rose or whitish - Nov & Dec 1845

<sup>22</sup>/<sub>9</sub> <sup>59</sup> caps. ann. 1771! Terrestrial - leu. oblong. o. rotu 2-4 ramos  
bil. brev. oblong. oblongo - perpus. his u u rotu



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50

*Cascuta partita* Chois!

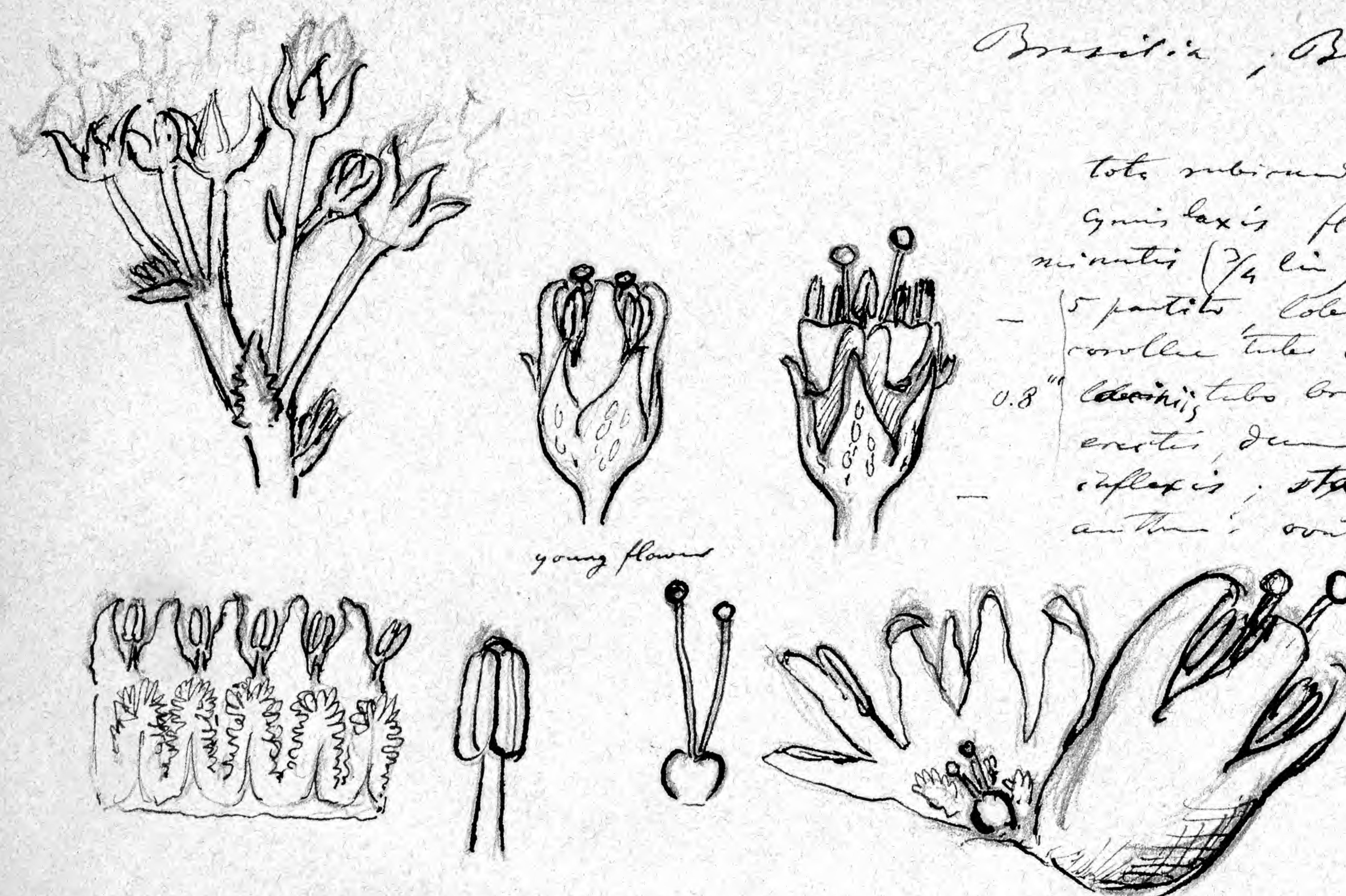
Brasilia, Blaauw 3057

ex herb. Shattoe

tot subrounda

Grus laxis fl. long pedicellis  
 minutis ( $\frac{1}{4}$  in) calyx profundi  
 5-partit. Corollis baccatit. antri-  
 convolue tubo campanulat. index  
 0.8" lobis tubo brevioris baccatit.  
 erecti, dum reflexis, apice  
 reflexis; staminis laeviusculus  
 antri; antri florae (cæpitis  
 flos inservit)

ovariis magis  
 fuscum attingit  
 ovario depresso  
 paucis, stylis  
 multo longioribus  
 exsertis.



a complete flower  
 and a small open  
 incomplete one on  
 the same <sup>regular</sup> calyx!

12.18. 22.26 26.28.29. 45.50  
 being used together



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 cm

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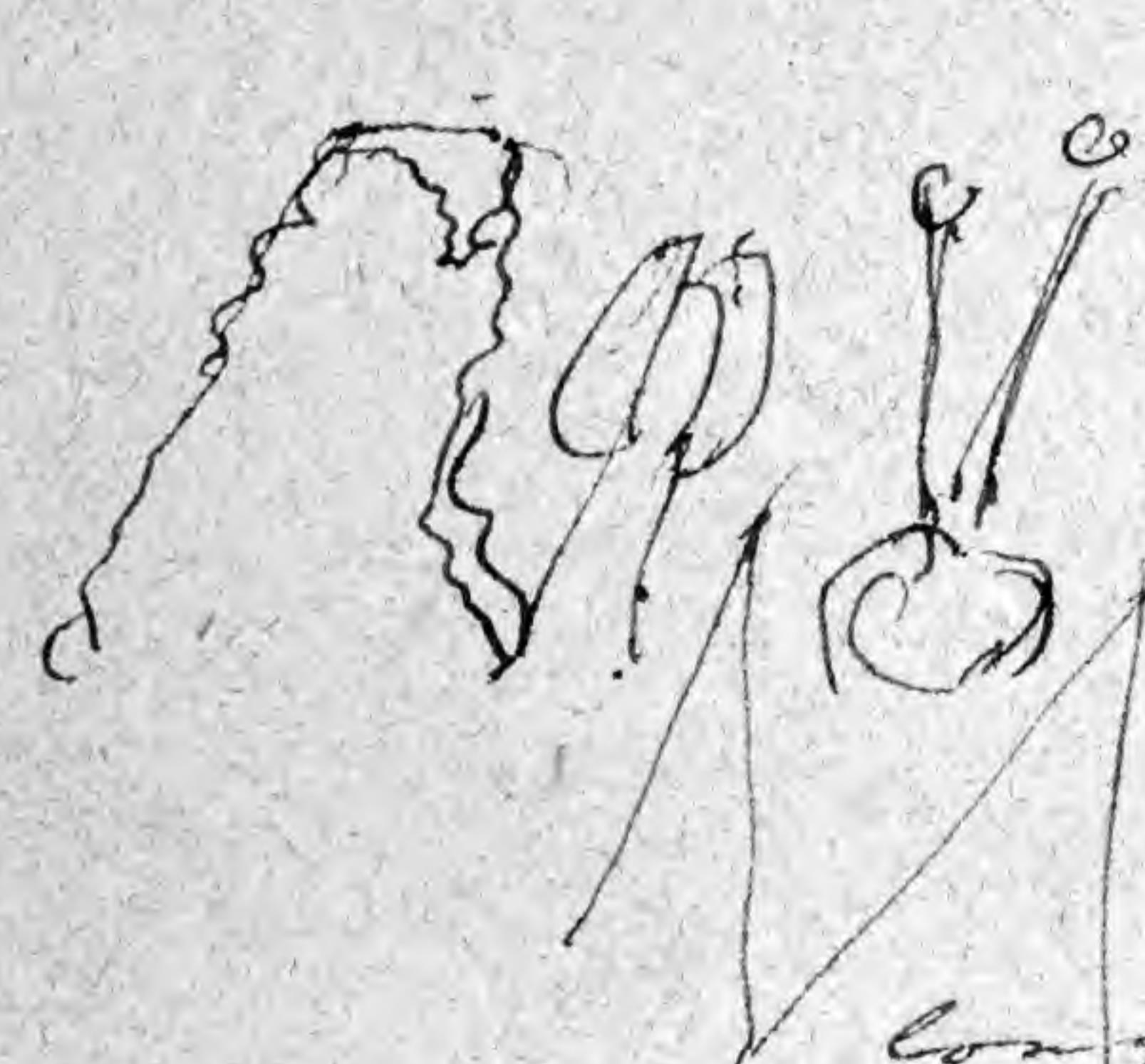
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*Curcuma partita* Chou

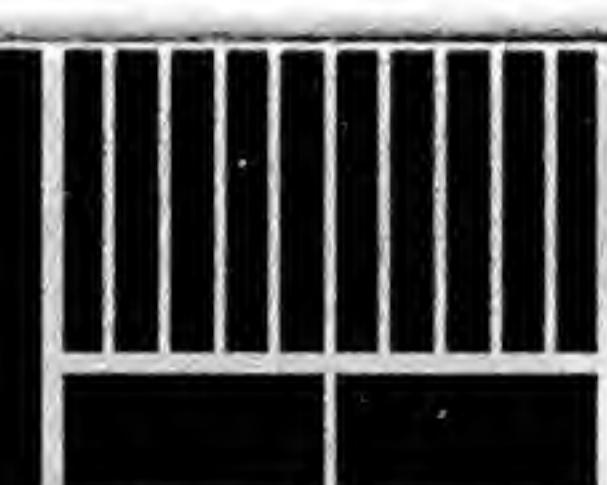
Brasil. Rhl. ~~as~~ 1700

Hb. Wardb. N 70  
Pranch., Gardner 2684, bis.

& Hb. Boleman

floribus pallidissimis bracteis utragis; floribus propter lobi  
subint. s. minuti, suos subro ropletis;  
petala in floribus canariensis amoenis rotula tuba capitulo  
(parte patita) rugositate; bracteis rotula tuba subbrunata, amoenis  
apice immixta, erectis s. decum reflexis; glandulae venenosae  
stili capituli filiformes ovario longioribus, subexsertis.

I can see no difference of this plant, & Chou's *C. partita*. - Hb. Boleman, Gardner 2684 is the same thing, but flowers larger  
1.3 - 1.4 lily  
Hb. Wardb. 59:., Curacao, Friedrichsthal 375.6. is the same plant  
flowers a little smaller, styles slightly shorter



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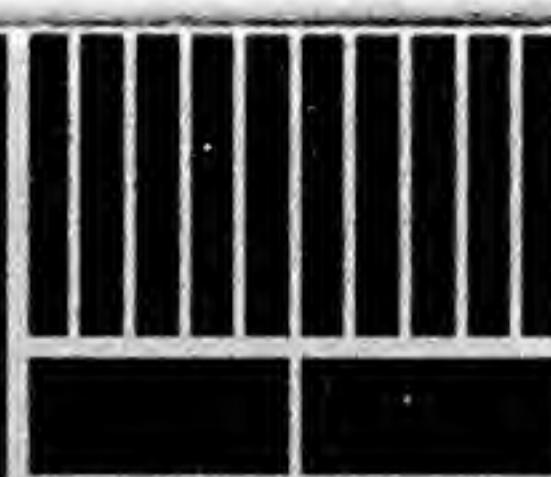
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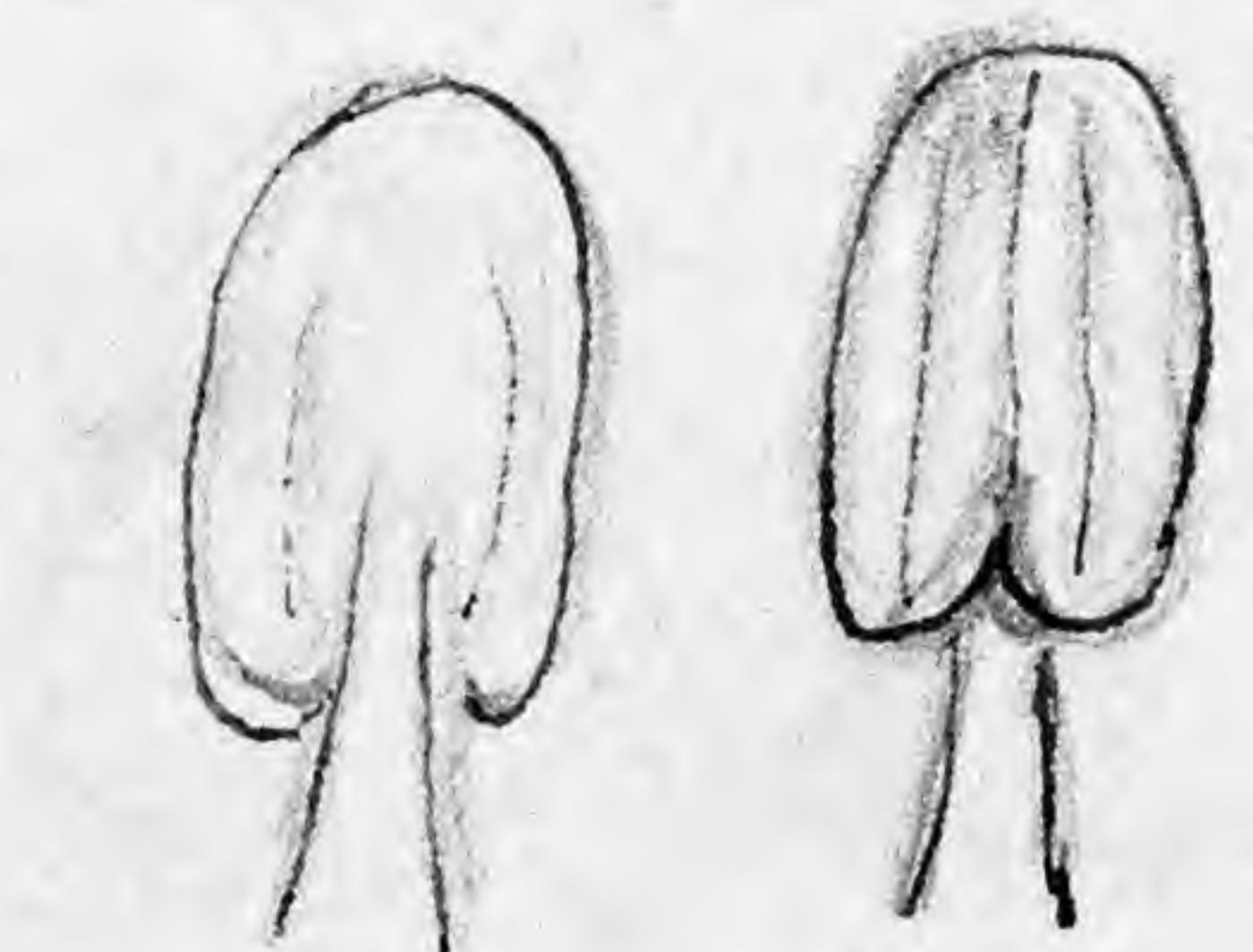
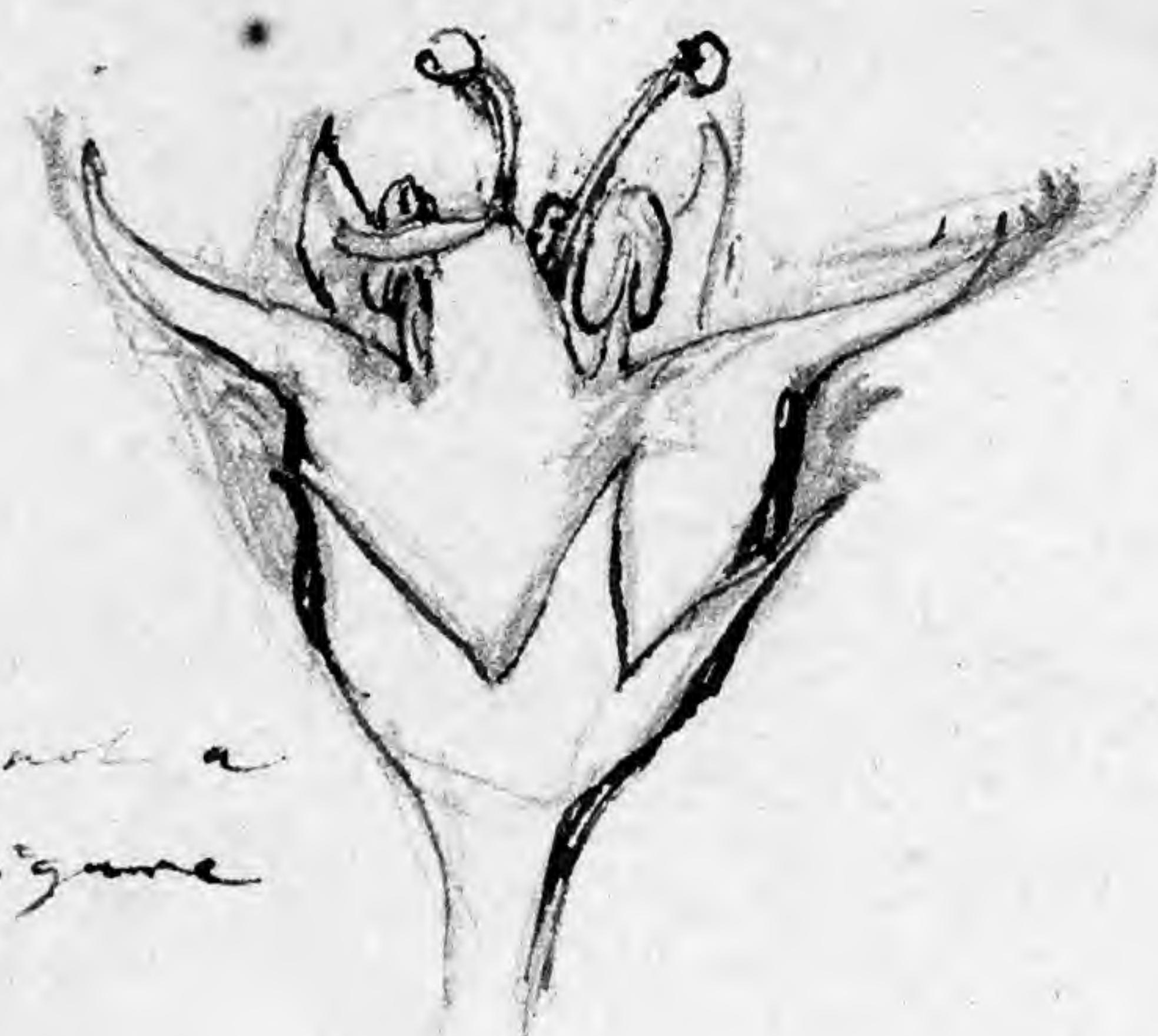


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0.5



=playtits!

*trichostylis*  
*casuaria* *trichostylis* n.s.p.

you find out

Piantz, Gardner

Brazil Hb. Hooker 47.6.

Drawn

and in capillaris

*spica* laxis, fls. spicata  
petiolaris gross. long., valvæ  
lobis anteris, tubo rotundus aperto  
diam. interiore, onlyces exserta,  
lacinia <sup>rotulæ</sup> ~~lacinia~~ <sup>de reflexa</sup> acutæ longioræ  
staminæ breviores, anteris anteris  
oblongæ flumines sub latæ longioræ  
~~spicæ~~ basim anteris coronæ frontis  
anteris ~~tubæ~~ multæ breviores

ovaria depressa, paralela; stylis  
longioris capillaris exserta, den  
recessis capsula inclusa levata, persistente  
staminæ parvis.

Flowers 1-1/2 in. long, styles very long, seeds only 1/2 in. long; crown



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of scales contracted around over the capsule, while the  
corolla-tube is wider, somewhat angulate, and not touching  
the scales!

allied to *C. desertorum* & *C. umbellata*, on account of  
~~name~~ (spreading)  
the ~~name~~ tubes, but distinct ~~though~~ by the angulate tube  
and the long styles.

~~Same under same name in the Deshman  
for "Prov. Ceara, Brazil trop., 1839" in Port. 100~~

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0291  
1880



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